

CHAPTER - 19
MISCELLANEOUS

| Sl. No. | Schedule Item No. | Description of the Work | P.W.D. Sepecification No. | Unit | Rate in Rs. |
|---------|-------------------|--|------------------------------|----------|-------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 19.01 | 730 | Supply and fixing of 10cm. (4") internal dia A.C. down pipes Everest or charminar make complete with bends with door at top and plain at bottom and grantings and including supply of necessary M.S. clamp 2.5cm x 3 mm. (1" x1/8") fixed to walls with cement motar (1:2) and including supply of 15 cm (6") long 6mm. (1/4") dia nail all materials, labour and T& P. etc. required for proper completion of the work and also including repair of plaster pointing etc. if damaged during fixing of the pipes. | 21.5 | Per Rm. | 180.00 |
| | 730 (a) | As per item No. 730 above but for 10.0 cm. PVC down pipe.(kissan/suprime make) | " | | 370.00 |
| | 730 (b) | As per item No. 730 above but for 7.5 cm. PVC down pipe. .(kissan/suprime make) | " | | 240.00 |
| | 730 (c) | As per item No. 730 above but for 5.00 cm. PVC down pipe..(kissan/suprime make) | " | | 200.00 |
| 19.02 | New Item | Providing and injecting chemical for preconstructional antitermite treatment and creating and chemical barrier under and around the coloumn pits wall trenches basement excavation top surface inplinth filling juction of wall and floor, along the external per meter of binding expansion joints surrounding of pipes and conduit etc. complete (plinth area of the building at ground floor only shall be measurd as per I.S. 6313(part II 1981) Aldrine emulsifiable concentrate or any other approved material such as Heptachlor or chlordane will be used. The rate of application of chemical emulsion shall be as follows :- | | | |
| | 1) | Treatment for massonary and foundation 5 lites per sqm | | | |
| | 2) | Back fill in immediate contact with foundation 7.5 lites per sqm | | | |
| | 3) | Treatment of surface of plinth filling 5 lites per sqm | | | |
| | 4) | Treatment of soil along external perimeter of Building 7.5 lites per sqm | | | |
| | 5) | Treatment of soil under external perimeter 5 lites per sqm | | | |
| | | | | Per Sqm. | 200.00 |

| Sl. No. | Schedule Item No. | Description of the Work | P.W.D. Specification No. | Unit | Rate in Rs. |
|---------|-------------------|--|-----------------------------|----------|-------------|
| 1 | 2 | 3 | 0 | | |
| 19.03 | New Item | Providing & injecting chemical for post Constructional anti termite treatment with drilling holes at junction of floor with walls & pillars, the application of chemicals shall be as per relevant I.S. code and the rate of application of chemical shall also be as provided in the I.S. code, including quarterly inspection and providing required treatment for one year. As direction by the Engineer-in-Charge. | | Per Sqm. | 150.00 |

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बुलन्दशहर वृत, लो०नी०वि०,
बुलन्दशहर

अधीक्षणी अभियन्ता,
बुलन्दशहर वृत, लो०नी०वि०,
बुलन्दशहर

(48)

CHAPTER - 20
ROAD WORK

| Sl. No. | Schedule Item No. | Description of the Work | P.W.D. Specification No. | Unit | Rate in Rs. |
|---------|-------------------|--|--------------------------|----------|-------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 20.01 | 751 | Consolidation of Kankar by hand rammer including opening out stacks sorting kankar into three sizes, repairing patches in existing road surface with kankar making medhi to retain water and ramming and also including carriage of metal upto 30 meters (100 ft.) carriage of water 200 metre supply and maintenance of barriers and all tools and plants required for proper completion of work, kankar to be supplied to the contractor free at site. | 20.2.1 | Per Cum. | -- |
| 20.02 | 752 | As in item No. 751 above but for consolidation by road roller including hire and fuel charges etc. of the roller. (roller charges accounted for Rs. 1800 per day). | 20.2.1 | ''' | -- |
| 20.03 | 753 (A) | As in item No. 752 above but for 10 to 12 cm. (loose) thick coat of brick ballast. | 20.3.1 | Per Cum. | 130.00 |
| | | (B) As in item No. 753 (a) above but excluding roller charges. | 20.3.1 | ''' | -- |
| | | (C) As in item No. 753(a) above but excluding roller charges etc. and also excluding all T&P and sundries etc. (Labour only) for departmental works. | 20.3.1 | ''' | -- |
| 20.04 | 754 (A) | As in item No. 753(a) above but 10 cm. (loose) thick coat of brick ballast. | 20.3.2 | Per Cum. | -- |
| | | (B) As in item No. 754 (a) above but excluding roller charges. | 20.3.2 | ''' | -- |
| | | (C) As in item No. 753(c) above but 8 cm. (loose) thick cost of brick ballast for departmental works (Labour only). | 20.3.2 | ''' | -- |
| 20.05 | 755 (A) | As in item No. 752 above but 12 cm. (loose) thick coat of stone ballast including spreading & screening material. | 20.4.1 | Per Cum. | 180.00 |
| | | (B) As in item No. 755 (a) above but excluding roller charges. | 20.4.1 | ''' | 120.00 |
| | | (C) As in item No.755(a) above but excluding roller charges etc. and also excluding all T&P and sundries etc. (Labour only) for departmental works. | 20.4.1 | ''' | -- |
| | | (D) As in item No.755(a) above but upto 10cm. (loose) thick coat | 20.4.1 | ''' | 185.00 |

| Sl. No. | Schedule Item No. | Description of the Work | P.W.D. Sepecification No. | Unit | Rate in Rs. |
|---------|-------------------|--|-------------------------------|----------------|------------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| | New Item | Consolidation of brick bads in soling including roller charges. | | Per Cum. | 100.00 |
| 20.04 | 757 (A) | Water allowance to be allowed on item No. 755 A & B between 15th November to 31st May. | 20.5 | Per Cum. | 25.00 |
| 20.05 | 760 | Dag belling 15cm (6") deep in one line aligned with flags and jhandies as directed by Engineer-in-charge. | 20.10 | Per Km. | 650.00 |
| 20.06 | 762 (a) | Brick soling with straight over burnt bricks laid flat and dry with brick edging on both sides including preparation of subgrade to prescribed camber and including supply of bricks, filling joints with local earth of P.I. 5 to 7, spreading blinding coat 1 cm (3/8") depth of local earth over the entire surface and including supply of all materials, labour Tools & Plants etc. required for proper completion of the work. | BSR/HPR GZB/GBN | Per Sqm. "" | 250.00 258.00 |
| | 762 (b) | As in item No. 762(a) above but with bricks laid on edge. | 20.12.1 BSR/HPR GZB/GBN | Per Sqm. | 360.00 370.00 |
| 20.07 | 763 | Brick on edge pavement with straight over burnt brick on parties with bricks, laid dry joints filled with local sand including preparation of base to proper slope, and its ramming, spreading layer of 1 cm. (3/8") depth of local sand over the subgrade and including supply of all materials, labour Tools &plants etc. required for proper completion of the work. | 20.16.1 BSR/HPR GZB/GBN | Per Sqm. | 400.00 410.00 |
| 20.08 | 764 (a) | Renewing patries 1.5 metere wide including dressing surface filling upto 8cm (3") depth and making namunas, at every 15 metre apart on either side of the road true to patri template with side slopes of 1:2 etc. trenches for taking the earth to be so dug that they form a continuous side drain at road boundary. | 20.14 | Per Km. | 15000.00 |
| | (b) | As in item No. 764(a) above but excluding T&P and sundries etc. (Labour only) for departmental works. | 20.14 | "" | -- |

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|---------|-------------------|---|---------------------------------|--------------------------|-----------------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 20.09 | 765 | Brick edging on both side of the road of M-150 bricks 7 cm. wide, 11 cm. deep, laid with mud mortar including labour & supply of bricks finished to the required template and in proper alignment and also including dressing and ramming the excavated earth as directed by the Engineer-in-charge. | 20.15 BSR/HPR GZB/GBN | Per Km. "" | 59000.00 60700.00 |
| 20.10 | 766 | Stacking of road metal to the required template after screening at road side including dressing of side berms as required where metal is to be stacked and including a lead upto 60 meters (200 ft.) | 20.17 | Per cum | As per Lucknow Circle |
| | 766 (a) | As in item No. 766 above but for departmental work, excluding T&P and sundries etc. | 20.17 | "" | As per Lucknow Circle |
| 20.18 | 772 | Scraping old painted surface including disposal of all scraped material to a distance of 30 meters (100 ft.) as directed by Enginer-in charge. (by machnical) | 20.25 | "" | 4.00 |
| 20.11 | 775 | Blinding of W.B.M. or Kankar Kilometer with local earth by spreading evently to an average depth of 15mm and filling up the interstices of the road metal. | -- | Per Km. (Single Lane) | -- |
| 20.12 | 780 | Patch repair of painted Kms, with Tar or Bitumen (labour only) including heating of the paint upto the required temperature pouring it on the surface, spreading of necessary quantity of grit and ramming hard the same with hand roller or rammer and also including cleaning with brushes etc. the existing surface after scarifying it to the water bound surface in rectangular shape and spreading the dismantled material on the parties as directed by Engineer-in-charge including all T&P and sundries etc. to be arranged by the contractor. | 20.24.1 | Per Cum | -- |
| | 780 (a) | As in item No. 780 above but Ramming hard the same with Road Roller. | 20.24.2 | "" | -- |
| 20.13 | 785 | Brick soling with straight over burnt bricks laid flat and dry (labour only) including preparation of subgrade to prescribed camber, filling joints with local earth spreading a blinding coat 1 cm (3/8") depth of local earth over the entire surface and including labour T&P etc.required for proper completion of the work.. | 20.12.2 | Per Sqm. | 60.00 |

| Sl. No. | Schedule Item No. | Description of the Work | P.W.D. Sepecification No. | Unit | Rate in Rs. |
|---------|-------------------|---|---------------------------|----------------|--|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 20.14 | 786 | As in item No. 785 above but with bricks laid on edge. | 20.12.2 | ''' | 70.00 |
| 20.15 | New Item | Laying of Hume pipe in position (labour only) including labour and T&P etc. required for proper completion of the work. NP-3 Type (i) 350 mm dia (ii) 600 mm dia (iii) 800 mm dia (iv) 900 mm dia (v) 1000 mm dia | | Per Rm. ''' | 160.00 175.00 250.00 360.00 460.00 |
| 20.16 | 1 | Fixing of joints in hume pipe with juit and cement etc.including cost of all matrial labour and T&P etc. required for proper completion of the work, (i) 350 to 600 mm dia (ii) 800 to 1000 mm dia | | Each ''' | 350.00 570.00 |
| | 2 | Errection of barricades consisting of two rows of horizontal wooden ballies 8 cm. dia at 45 cm center to center and vertical posts of 8 cm. X 10 cm.size wooden bargas or 10 cm. dia ballies 2.10 meter center to center 1 metre to 1.25 metre projection above ground level and 0.45 metre embeded below ground level, securely tightened with superior quality of fine narial rope, including supply of all materials, labour, Tools & plant etc. required for proper completion of the work according to standard design issued wide C.E.'s No. 4261C/1013C/74 Dated 2-8- 74, but in metric dimension given above and as directed by the Engineer-in-charge and including its removal, leveling and dressing of the site when done with. | -- | Per Rm. | 75.00 |
| | 3 | Same as above item No. 4 but 3 rows of horizontal wooden ballies in place of two. | -- | Per Rm. | 80.00 |
| | | Dismantling of old brick laid on edge kharanja including stacking of old bricks . | | per sqm | 15.00 |

| Sl. No. | Schedule Item No. | Description of the Work | P.W.D. Sepecification No. | Unit | Rate in Rs. |
|---------|-------------------|---|------------------------------|----------------|-------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| | New Item | Supply of 80mm thick Precast cement concrete I-Shape or zigzag Interlocking paver blocks with top layer of minimum 8 mm thickness having plan dimension 200x(160+120mm) of O.P. Cement , smooth high gloss finish, skid resistant; manufactured from rubber moulds through vibro-compression mechanism. The compressive strength of concrete paver block shall not be less than 30Mpa (M-30) and weight 5kg per No. confirming to IS: 15658-2006 including cost of material, labour, T & P etc required for proper completion of the work as directed by Engineer-in-charge. But excluding UP TT which shall be paid extra as per rules (i) Grey color (ii) Red color (High Quality pigment/lanxess, Bayer Chemicals) | | | |
| | New Item | Supply of 80mm thick Precast cement concrete I-Shape or zigzag Interlocking paver blocks with top layer of minimum 8 mm thickness having plan dimension 200x(160+120mm) of O.P. Cement , smooth high gloss finish, skid resistant; manufactured from rubber moulds through vibro-compression mechanism. The compressive strength of concrete paver block shall not be less than 40Mpa (M-40) and weight 5kg per No. confirming to IS: 15658-2006 including cost of material, labour, T & P etc required for proper completion of the work as directed by Engineer-in-charge. But excluding UP TT which shall be paid extra as per rules (i) Grey color (ii) Red color (High Quality pigment/lanxess, Bayer Chemicals) | Per No. "" | 18.00 20.00 | |
| 20.17 | New item | Laying of interlocking tiles of 60 to 80 mm thick including levelling and dressing of surface up to required level and slopes filling joints with local sand including cost of labour, T&P etc complete But excluding cost of material as directed by Engineer in charge.. | -- | Per Sqm. | 70.00 |

| Sl. No. | Schedule Item No. | Description of the Work | P.W.B. Specification No. | Unit | Rate in Rs. |
|---------|-------------------|---|--------------------------------|----------|-------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 20.18 | New item | <p>Cement Concrete Pavement (C.C. Road)</p> <p>(a) Construction of un-reinforced, dowel jointed at expansion and construction joint only, plain cement concrete pavement, thickness as per design, over a prepared sub base with 43 grade cement or any other type as per Clause 1501.2.2 (1:1½:3) coarse and fine aggregates confirming to IS 383 maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weight batcher using approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including provision of contraction and expansion, construction joints as per norms, applying debonding strips primer, sealant, dowel bars, near approaches to bridge/ culvert and construction, joints, admixtures as approved, curing of concrete slabs for 14-days, curing compound (Where specified) and water finishing to lines and grade as per drawing and Technical Specification Clause 1501 including Cost of Polythene Sheet and Dowel bar and also including complete shifting of materials & Concrete etc.</p> | -- | Per Cum. | 7000.00 |

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| Sl. No. | Schedule Item No. | Description of the Work | P.W.D. Sepecification No. | Unit | Rate in Rs. |
|---------|------------------------|--|---------------------------|-----------|---------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| | (b) | Laying C C Road slab 10 cm (4") thick consisting of 1:2:4 cement, coarse sand & approved 2 cm ($\frac{3}{4}$) gauge hard stone grit and including supply of all materials, labour and T & P etc. spreading the concrete with shpveles, rakes, compacted using plate and needle vibrators and finished in continuous operation including provision of joint filler board 20 mm thick as per I.S. 1838 bitumen sealant curing of concrete slabs for 14-days, and water finishing to lines and grade as per drawing and required for proper completion of work, finished to required template as directed by Engineer-in-charge and including complete shifting of material and concret and also including 125 micron thick Polythene flim but excluding cost of metal required for rectification of the sub-grade. As per P.W.D Specification. | -- | Per Cum. | 6200.00 |
| 20.19 | New item | Providing & laying hot applied thermo plastic compound 2.5 mm thick including refletrorising glass beads @ 250 gm/sqm, Area, thickness of 2.5 mm is exclusive of surface applied glass beads as per I.R.C. 35. The Finish surface to be level, uniform and free from streaks and holes. Composition of thermo plastic material shall be as per table 800-3 of clause 803 of MORTH including cost of all material, labour, T & P etc. require for proper completion of work as direction by Engineer-in-Charge. | -- | Per Sqm. | -- |
| 20.20 | New item | Making Expansion/ contraction joints in C.C. Roads including approved filler Materials in joints. Depth of joints 10 cm /require depth at the joints of panels and giving them a uniform finish including supply of all material, labour , tools & plants etc. required for proper complition of work as per direction of Engineer in charge | -- | per Rm | 40.00 |
| 20.21 | New item (a) (b) | Providing & supply gunny bags including cost of sand and stitching of bags and laying in position. Removing of bags upto 100 meter | | Each " | 18.00 4.00 |

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बुलन्दशहर वृत, लो०निंवि०,
बुलन्दशहर

CHAPTER - 21(A)
ANNUAL REPAIR MATERIAL

| Sl. No. | Schedule Item No. | Description of the Work | P.W.D. Sepecificati on No. | Unit | Rate in Rs. |
|------------|----------------------|--|----------------------------------|----------|-------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 21.01 | 806 | Renewing panes of glass in door, window & ventilators or fixing in the new work with 3 mm, thick glasspanes fixed with brads & putty including supply of all materials, labour, tools & plants, required for proper completion of work. | 19.11.3 | Per Sqm. | 460.00 |
| 21.02 | 817 | Painting letters up to 2.5 cm. size including supply of all materials, labours & tools and plants etc. required for proper completion of the work. | 19.17.1 | Each | 4.20 |
| 21.03 | 818 | As in item 817 above but size above 2.5 cm. but up to 8 cm. | 19.17.2 | -do- | 5.20 |
| 21.04 | 819 | As in item 817 above 8 cm. but up to 15 cm. | 19.17.3 | -do- | 6.30 |
| 21.05 | 820 | Repainting letters up to 2.5 cm. size including supply of all materials, labours & tools and plants etc. required for proper completion of the work. | 19.17.4 | -do- | 3.20 |
| 21.06 | 821 | As in item 820 above but size above 2.5 cm. but up to 8 cm. | 19.17.6 | -do- | 3.70 |
| 21.07 | 822 | As in item 820 above but size above 8 cm. but up to 15 cm. | -do- | -do- | 5.20 |
| 21.08 | 823 | Repairing and relettering number plates on ends of parapets of culverts and bridges in letters height from 2.5 cm to 8 cm with approved enamel paint of superior quality including supply of all materials, labours and T & P etc. required for proper completion of the work. | | -do- | 50.00 |
| 21.09 | 832 | Repainting and relettering of K.M. stones as per IRC design (except 5th km. Stone) with approved enamel paint of superior quality including supply of all materials, labours and T & P etc. required for proper completion of the work. | | -do- | 140.00 |
| 21.10 | 833 | As in item 832 above but 5th. stone | | -do- | 200.00 |
| 21.11 | 834 | As in item 832 above but 200 H.M. stone | | -do- | 15.00 |
| 21.12 | 835 | As in item (818) but lettering or numbering with stencils. | | -do- | 1.00 |

| Sl. No. | Schedule Item No. | Description of the Work | P.W.D. Sepecificati on No. | Unit | Rate in Rs. |
|------------|----------------------|--|----------------------------------|----------|-------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 21.13 | 836 (a) | Painting border line up to 2.5 cm. wide | | Per Rm. | 6.00 |
| | (b) | Painting border line up to 2.5 cm. to 5 cm. wide | | -do- | 8.00 |
| 21.14 | 837 (a) | Repainting border line up to 2.5 cm. wide | | -do- | 5.00 |
| | (b) | Repainting border line up to 2.5 cm. to 5 cm. wide | | -do- | 5.00 |
| 21.17 | New Item | Supply & fixing of R.C.C.Grill work (JALI) of approved pattern & make at site of work in cement concrete consisting of cement, approved coarse sand and 6 mm. nominal size stone grit in the proportion of 1:2:4 & reinforced with 6 mm. dia M.S. wire/bar including cutting & finishing with 1:3 cement & fine sand of 1.25 fineness modulus mortar including supply of all materials, labour, tools and plants etc. required for proper completion of the work but excluding plaster on jambs, sill & soffit of the opening. (1) 5.00 cm. thick. (2) 4.00 cm. thick. | -- | Per Sqm. | 650.00 |
| | | | -- | -do- | 550.00 |
| 21.18 | New Item | Cutting groove in plaster 1 cm. wide & 1 cm. deep by using special tools including supply of all tools & plants etc. complete | | Per Rm. | 4.00 |
| 21.19 | New Item | R.C.C. Work in thin shelves about 2.50 cm. thick including bending, binding & fixing of reinforcement in position as per design casting cutting of wall, fixing of shelves in position as per design & making good wall repairing of the edges of the shelves to the satisfaction of the Engineer-in-charge including cost of material, centering shutting etc. but excluding cost of reinforcement. | | Per Sqm. | 300.00 |

| Sl. No. | Schedule Item No. | Description of the Work | P.W.D. Sepecificati on No. | Unit | Rate in Rs. |
|------------|-------------------------|---|----------------------------------|----------|-------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 21.20 | New Item | Making Khurra 45 cms x 45 cms with c.c. 1 : 2 : 4 average 5 cms thick including supply of all materials, labour, T and P etc. required for proper completion of work. | -- | Each | 100.00 |
| 21.21 | New Item | Supply and fixing of 24 gauge Aluminium sheet on toilet door shutters bottom including fixing with aluminium greves & supply of all materials, labour, T and P etc. required for proper completion of work. | -- | Per Sqm. | 300.00 |
| 21.22 | New Item | Varnishing /Painting on chair /side rack with stand and such other items including all matrial labour T&P etc. complite for proper completion of the work. | | Each | 80.00 |
| 21.23 | New Item | Varnishing /Painting on Double bed including all matrial labour T&P etc. complite for proper completion of the work. | | Each | 400.00 |
| 21.24 | New Item | Varnishing /Painting on Singal bed/ Sofa/ Dining table including all matrial labour T&P etc. complite for proper completion of the work. | | Each | 250.00 |
| 21.25 | New Item | Cutting and repairing of walls or windows for fitting of window type A.C. inculding wooden bidding after fixing. | -- | Each | 350.00 |

अवर अभियन्ता (प्राप्त)
बुलन्दशहर वृत्त लो०निं०वि०,
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अधीक्षण अभियन्ता
बुलन्दशहर वृत्त लो०निं०वि०,
बुलन्दशहर

CHAPTER-21(B)
WATER SUPPLY & SANITARY WORK

| Sl. No. | Schedule Item No. | Description of the Work | P.W.D. Sepecification No. | Unit | Rate in Rs. |
|------------|----------------------|--|---------------------------------|------|-------------|
| 21b.1 | | Providing and fixing white vetricous china pedestal type water closet (European type) standard size ISI marked Hindware or Equivalent with seal and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I. brackets, 40mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete including painting of fittings and brackets, cutting and making good the walls and floors wherever required complete as per direction of Engineer-in-charge. | | each | 3400.00 |
| 21b.2 | | Providing and fixing white vetricous china flat back or wall corner type lipped front urinal basin of 430x260x350mm and 340x410x265mm sizes ISI marked Hindware or Equivalent respectively with 5 litre white P.V.C. automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required : | | each | 2300.00 |
| 21b.3 | | Providing and fixing water closet squatting pan (Indian type W.C. pan size 580x440mm) Hindware or Equivalent with 100mm sand cast Iron P or Strap, 10 litre low level white P. V.C. flushing cistern with manually controlled device (handle lever) confirming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required: | | each | 2000.00 |
| 21b.4 | | Same as above but White Vitreous china Orissa pattern W.C. pan of size 580x440mm with integral type foot rests. | | each | 2300.00 |

| Sl. No. | Schedule Item No. | Description of the Work | P.W.D. Bureau of Public Works Government of India | Unit | Rate in Rs. |
|------------|----------------------|--|---|------|-------------|
| 21b.5 | | Same as above but White Vitreous china Orissa pattern W.C. pan of size 580x440mm Hindware or Equivalent with integral type foot rests and 1 piece construction white vitreous china squatting plate with an integral longitudinal flushing pipe, white 5 litre P.V.C. automatic flushing cistern, with fitting, standard size G.I. flush pipe for back and front flush with standard spreader pipes with fittings, G.I. clamps and C.P. brass coupling complete including painting of fittings and cutting and making good the walls and floors etc. wherever required : | | each | 2480.00 |
| 21b.6 | | Providing and fixing P.V.C. low level flushing cistern Hindware or Equivalent with manually controlled device (handle lever) confirming to IS : 7231, with all fittings and fixtures complete.10 litre capacity-coloured-White | | each | 685.00 |
| 21b.7 | | Providing and fixing controlled flush, low level cistern made of vitreous china Hindware or Equivalent with all fittings complete. 10 litre (full flush) capacity-White | | each | 1150.00 |
| 21b.8 | | Providing and fixing white vitreous china wash basin Hindware or Equivalent including making all connections but excluding the cost of fittings complete as per direction Engineer-in-charge. | | | |
| 21b.9 | a | Flat back wash basin of size 630x450mm | | each | 710.00 |
| | b | Flat back wash basin of size 550x400mm | | each | 570.00 |
| | c | Flat back wash basin of size 450x300mm | | each | 470.00 |
| 21b.10 | | Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete as per direction of Engineer-in-charge. | | | |
| | a | 32mm dia (Semi rigid pipe) | | each | 40.00 |
| | b | 40mm dia (Semi rigid pipe) | | each | 45.00 |
| | c | 32mm dia (Flexible pipe) | | each | 44.00 |
| | d | 40mm dia (Flexible pipe) | | each | 47.00 |

| Sl. No. | Schedule Item No. | Description of the Work | P.W.D. Sepecification No. | Unit | Rate in Rs. |
|------------|----------------------|---|---------------------------------|------|-------------|
| 21b.11 | | Providing and fixing 600x450 mm bevelled edge mirror of superior glass (of approved quality Atul or equivalent) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete. | | each | 530.00 |
| 21b.12 | | Providing and fixing toilet paper holder standrad size ISI marked C.P. brass as per direction Engineer-in-charge | | each | 141.00 |
| 21b.13 | | Providing and fixing G.I. pipes B class Jindal or equivalent complete with G.I. fittings and clamps, including cutting and making good the walls etc. linternal work - Exposed on wall complete and testing also as per direction of Engineeer-in-charge. | | | |
| | a | 15 mm dia. nominal bore | | RM | 104.00 |
| | b | 20 mm dia. nominal bore | | RM | 131.00 |
| | c | 25 mm dia. nominal bore | | RM | 176.00 |
| 21b.14 | | Same as above but Concealed pipe including painting with anti corrosive bitumastic paint, cutting chases and making good the wall including testing complete as per direction of Engineer-in-charge. | | | |
| | a | 15 mm dia nominal bore | | RM | 144.00 |
| | b | 20 mm dia nominal bore | | RM | 164.00 |
| 21b.15 | | Providing and fixing brass bib cock ISI marked approved quality as direction of Engineer-in-charge. | | | |
| | a | 15 mm nominal bore | | each | 183.00 |
| | b | 20 mm nominal bore | | each | 225.00 |
| 21b.16 | | Providing and fixing brass stop cock ISI marked approved quality as per direction of Engineer-in-charge. | | | |
| | a | 15 mm nominal bore | | each | 183.00 |
| | b | 20 mm nominal bore | | each | 226.00 |
| 21b.17 | | Providing and fixing ball valve (brass)ISI marked approved quality complete as per direction of Engineer-in-charge. | | | |
| | a | High or low pressure with plastic floats: 15 mm nominal bore | | each | 218.00 |

| Sl. No. | Schedule Item No. | Description of the Work | P.W.D. Sepecificati | Unit | Rate in Rs. |
|------------|----------------------|--|------------------------|----------|-------------|
| 21b.18 | a | Providing and fixing C.P. brass bib cock of approved quality confirming to IS:8931 15 mm nominal bore | | each | 299.00 |
| 21b.19 | a | Providing and fixing C.P. brass long nose bib cock of approved quality confirming to ISI standards and weighing not less than 810 gms. 15mm nominal bore. | | each | 262.00 |
| 21b.20 | a | Providing and fixing C.P. brass long body bib cock of approved quality confirming to ISI standards and weighing not less than 690 gms. 15mm nominal bore. | | each | 302.00 |
| 21b.21 | a | Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make confirming to IS:8931. 15mm nominal bore. | | each | 299.00 |
| 21b.22 | a | Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality confirming to IS:8931 15 mm nominal bore | | each | 333.00 |
| 21b.23 | a | Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI: 12701 marked(Sintex or equivalent) with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank complete as per direction of Engineer-in-charge. | | per ltr. | 5.00 |
| 21b.24 | a | Providing, laying and jointing glazed stoneware pipes grade 'A' with stiff mixture of cement mortar in 1 :1 (1 cement: 1 fine sand) including fixing jute wet in cement sullry testing of joints etc. complete as per direction of Engineer-in-charge. 100 mm diameter | | RM | 115.00 |
| | b | 150 mm diameter | | RM | 160.00 |

अवर अभियन्ता (प्रा०)

बुलन्दशहर वृत्त लो०नी०वि०,

बुलन्दशहर

अधीक्षण अभियन्ता

बुलन्दशहर वृत्त लो०नी०वि०,

बुलन्दशहर

CHAPTER-22

Trafic Sign

| Sl. No. | Schedule Item | Description of the work | P.W.D. Specificat | Unit | Rate in Rs. |
|---------|---------------|---|-------------------|------|-------------|
| 1 | New Item | <p>Retro-Reflectorised Traffic Signs</p> <p>Providing and fixing of retro- reflectorised cautionary, mandatory and informative sign as per IRC :67 made of high intensity grade sheeting vide clause 801.3, fixed over aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing. With 7 years warranty. Rates include design, fabrication, supply, transportation and erection of the sign board and also inclusive of all taxes, royalty, VAT etc. all T&P/machine material and labour required for proper completion of work.</p> <p>Note : The Composite warranty jointly signed by original manufacturer & authorized converter of at least 7 years shall be furnished on non judicial stamp of required denomination both for retro reflective sheet and also complete signage.</p> <ul style="list-style-type: none"> (i) 90 cm equilateral triangle (ii) 60 cm equilateral triangle (iii) 60 cm circular (iv) 90 cm high octagon | 801 MORTH | | |
| 2 | New Item | <p>Direction and Place Identification Signs upto 0.9 sqm Size Board.</p> <p>Providing and erecting direction and place identification retro-reflectorised sign as per IRC:67 made of high intensity grade sheeting vide clause 801.3, fixed over aluminium sheeting, 2 mm thick with area not exceeding 0.9 sqm supported on a mild steel single angle iron post 75 x 75 x 6 mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45 x 45 x 60 cm, 60 cm below ground level as per approved drawing. With 7 years warranty. Rates include design, fabrication, supply, transportation and erection of the sign board and also inclusive of all taxes, royalty, VAT etc. all T&P/machine material and labour required for proper completion of work.</p> <p>Note : The Composite warranty jointly signed by original manufacturer & authorized converter of at least 7 years shall be furnished on non judicial stamp of required denomination both for retro reflective sheet and also complete signage.</p> <ul style="list-style-type: none"> (i) 60 cm x 90 cm size board (ii) 90 cm x 90 cm size board (iii) 45 cm x 60 cm size board (iv) 60 cm x 60 cm size board | 401 MORTH | | |

| Sl. No. | Schedule Item | Description of the work | P.W.D. Specificat | Unit | Rate in Rs. |
|---------|---------------|---|-------------------|------|-------------|
| 3 | New Item | <p>Direction and Place Identification Signs with size more than 0.9 sqm size Board.</p> <p>Providing and erecting direction and place identification retro-reflectoised sign as per IRC :67 made of high intensity grade sheeting vide clause 801.3, fixed over aluminium sheeting, 2 mm thick with area exceeding 0.9 sqm supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm, 2 Nos. firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete 45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing. With 7 years warranty. Rates include design, fabrication, supply, transportation and erection of the sign board and also inclusive of all taxes, royalty, VAT etc. all T&P/machine material and labour required for proper completion of work.</p> <p>Note : The Composite warranty jointly signed by original manufacturer & authorized converter of at least 7 years shall be furnished on non judicial stamp of required denomination both for retro reflective sheet and also complete signage.</p> | 801 MORTH | | |
| | (i) | 90 cm x 120 cm | | Each | 10240.00 |
| | (ii) | 120 cm x 120 cm | | Each | 13520.00 |
| | (iii) | 120 cm x 180 cm | | Each | 19280.00 |
| | (iv) | 180 cm x 180 cm | | Each | 27920.00 |
| 5 | New Item | <p>Retro reflective signboard made up of 2 mm thick aluminium sheet, face to be fully covered with 3M high intensity prismatic reflective sheeting series 3930, letters/ symbols shall be made of same retroreflective sheeting and computer cut as per colour required. Boards are to be supplied alongwith back support frame of MS angle size 35x35x5 mm. and back side of aluminium sheet shall be painted with stove enamel paint. With 7 years warranty. Rates include design, fabrication, supply, transportation and erection of the sign board and also inclusive of all taxes, royalty, VAT etc. all T&P/machine material and labour required for proper completion of work.</p> <p>Note : The Composite warranty jointly signed by original manufacturer & authorized converter of at least 7 years shall be furnished on non judicial stamp of required denomination both for retro reflective sheet and also complete signage.</p> | | Sqm | 7700.00 |
| 6 | New Item | <p>Road Marking with Hot Applied Thermoplastic Compound with Reflectoising Glass Beads on Bituminous Surface</p> <p>Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectoising glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 .The finished surface to be level, uniform and free from streaks and holes. Rates are inclusive of all taxes, royalty, VAT etc. all T&P/machine material and labour required for proper completion of work.</p> | 803 MORTH | Sqm | 445.00 |

| Sl. No. | Schedule Item | Description of the work | P.W.D. Specificat | Unit | Rate in Rs. |
|---------|---------------|---|-------------------|------|-------------|
| 7 | New Item | <p>Supply, fixing and hoisting of 6.00-7.00 m. span Cantilever Structure in position with one vertical post of 6.00 M. clear height from the top of R.C.C. foundation made of 300 mm. dia pipe welded with 10 mm thick MS plate at bottom supported with 10 mm thick MS plate stiffeners & two nos. 8 mm thick MS plates at top welded with structure of 40 mm NB (M) pipe comprising of horizontal, vertical & bracing pipe of 32 mm NB (M) as per structural design requirements & approved drawing with vertical & lateral clearance given in clause 802.2 & 802.3 including one coat of primer and two coats of synthetic enamel paint on the whole structure & installed as per clause 802.7 over a designed support system made up of concrete including excavation, lean concrete 1:4:8 cement, coarse sand and approved 20 mm grit and R.C.C. 1:2:4 with cement, coarse sand and approved 20 mm grit complete for fixing the complete structure in position as per direction of E/I charge. With 7 years warranty. Rates include design, fabrication, supply, transportation and erection of the signage structure royalty, VAT etc. all T&P/machine material and labour required for proper completion of the work.</p> <p>Note : The Composite warranty jointly signed by original manufacturer & authorized converter of at least 7 years shall be furnished on non judicial stamp of required denomination for complete structure.</p> | | Each | 125000.00 |
| 8 | New Item | <p>Supply, fixing and hoisting of 12.00 - 15.00 M span Overhead Structure in position with two vertical posts of 6.00 M. clear height from the top of R.C.C. foundation made of 300 mm. dia pipe welded with 10 mm thick MS plate at bottom supported with 10 mm thick MS plate stiffeners & two nos. 10 mm thick MS plates at top welded with structure of 50 mm NB (M) pipe comprising of horizontal, vertical pipe of 40 mm NB (M) and bracing pipe of 32 mm NB (M) as per structural design requirements and approved drawing with vertical and lateral clearance given in clause 802.2 and 802.3 including one coat of primer and two coat of synthetic enamel paint on the whole structure and installed as per clause 802.7 over a designed support system made up of concrete including excavation, lean concrete with 1:4:8 cement, coarse sand and approved 20 mm grit and R.C.C. 1:2:4 with cement, coarse sand and approved 20 mm grit complete for fixing the complete structure in position as per direction of E/I. charge. With 7 years warranty. Rates include design, fabrication, supply, transportation and erection of the sign board and also inclusive of all taxes, oyalty, VAT etc. all T&P/machine material and labour required for proper completion of the work.</p> <p>Note : The Composite warranty jointly signed by original manufacturer & authorized converter of at least 7 years shall be furnished on non judicial stamp of required denomination for complete structure.</p> | | Each | 280000.00 |

| Sl. No. | Schedul e Item | Description of the work | P.W.D. Specificiat | Unit | Rate in Rs. |
|------------|-------------------|--|-----------------------|------|-------------|
| 9 | New Item | <p>Reflective Raised Pavement Marker Providing and fixing of raised pavement markers (Cat Eye) Type x-ASTMD-4956-04 Avery Dennision/3m(USA Make) having moulded body of polycarbonate, ASA, HIPS or ABS able to support a load of 13.635 M.T. tested in accordance with ASTMD 4280 type H and other requirement mentioned in MoRT&H Circular, its reflective lens made of micro prismatic lens (capable of providing total internal reflection of light), electronically welded to the body. The length, height and width of the body shall not exceed 130 mm, 20 mm and 105 mm respectively, The area of each reflective surface shall not be less than 13 Sq. cm . on each side sloping at the angle of 35 + 5 degree to the base to ensure maximum reflectivity. it shall comply to specification of Category A of MoRT&H circular no. RW/NH 33023/10/97-DO-III dated 11.06.97 lenses shall be moulded of methyl methacrylate conforming to ASTMD 788 or equivalent. With 7 years warranty. Rate shall be inclusive of all taxes, royalty, VAT etc. All T&P/ machine material and labour required for proper completion of work.</p> <p>Note : The Composite warranty jointly signed by original manufacturer & authorized converter of at least 7 years shall be furnished on non judicial stamp of required denomination.</p> | | Each | 325.00 |
| 10 | New Item | <p>Reflective Raised Pavement Marker with shanks Providing and fixing of raised pavement markers with twin shanks of adequate length anchored with epoxy / bitumen adhesive of approved make(Cat Eye) Type x-ASTMD-4956-04 Avery Dennision/3m(USA Make) having moulded body of polycarbonate, ASA, HIPS or ABS able to support a load of 13.635 M.T. tested in accordance with ASTMD 4280 type H and other requirement mentioned in MoRT&H Circular, its reflective lens made of micro prismatic lens (capable of providing total internal reflection of light), electronically welded to the body. The length, height and width of the body shall not exceed 130 mm, 20 mm and 105 mm respectively, The area of each reflective surface shall not be less than 13 Sq. cm . on each side sloping at the angle of 35 + 5 degree to the base to ensure maximum reflectivity. it shall comply to specification of Category A of MoRT&H circular no. RW/NH 33023/10/97-DO-III dated 11.06.97 lenses shall be moulded of methyl methacrylate conforming to ASTMD 788 or equivalent. With 7 years warranty. Rate shall be inclusive of all taxes, royalty, VAT etc. etc. All T&P/ machine material and labour required for proper completion of work.</p> <p>Note : The Composite warranty jointly signed by original manufacturer & authorized converter of at least 7 years shall be furnished on non judicial stamp of required denomination.</p> | | Each | 430.00 |
| 2 | | <p>Supplying and instalation of delinators (road way indicators, hazard markers, object marker) 80-100cm. High above ground level, painted black and white in 15cm. Wide strips, fitted with 80x100mm rectangular or 75mm dia circular reflectorised panel at the top buried or pressed into the ground and conforming to IRC:79 and the drawing. Rates are inlusive of all taxes, royalty, VAT etc. all T&P/machine material and labour required for proper completion of work.</p> <p>Note : The Composite warranty jointly signed by original manufacturer & authorized converter of at least 7 years shall be furnished on non judicial stamp of required denomination.</p> | | Nos. | 1375.00 |

| Sl. No. | Schedule Item | Description of the work | P.W.D. Specificat | Unit | Rate in Rs. |
|---------|---------------|---|-------------------|------|-------------|
| 5 | | <p>Supplying & fixing of Linear Delineator System (LDS) panels made of Micro prismatic Retro Reflective sheeting duly laminated on thin aluminium foil to a unique corrugated shape to provide retro reflection across wide range of observations and external angles. Each LDS panel should be of nominal length of 33 inch and each ridge shall be approximately 0.34 inch high. Each LDS panel is to be firmly fixed on existing MS Railing through MS Sections welding as and when required. Rates are inclusive of all taxes, royalty, VAT etc. all T&P/machine material and labour required for proper completion of work.</p> <p>Note : The Composite warranty jointly signed by original manufacturer & authorized converter of at least 7 years shall be furnished on non judicial stamp of required denomination.</p> | | Nos. | 1270.00 |
| 9 | | <p>Providing & fixing of Bollard made (Single side) out of aluminium sheet 4mm thick welded poly shaped to make it monolithic pillar size 1200mm high Bollard is having a frame 900x600mm and 600mm dia for fixation made out of 35x35x5mm angle iron and from side is fully covered fixing the complete structure in position as per direction of E/I. charge. With 7 years warranty. Rates include design, fabrication, supply, transportation and erection of the sign board and also inclusive of all taxes, oyality, VAT etc</p> | | Nos. | 5554.00 |
| 10 | | <p>Supply & fixing of Bollard (Double side) Made out of aluminium sheet 4mm thick welded poly shaped to make it monolithic pillar size 1200mm high Bollard is having a frame 900x600mm and 600mm dia for fixation made out of 35x35x5mm angle iron and from side is fully coverd. fixing the complete structure in position as per direction of E/I. charge. With 7 years warranty. Rates include design, fabrication, supply, transportation and erection of the sign board and also inclusive of all taxes, oyality, VAT etc</p> | | Nos. | 8578.00 |

अवर अभियन्ता (प्राठ)
बुलन्दशहर वृत्त लो०नी०वि०,
बुलन्दशहर

अधीक्षण अभियन्ता
बुलन्दशहर वृत्त लो०नी०वि०,
बुलन्दशहर

(67)

CHAPTER - 23
USAGE RATES OF PLANT & MACHINERY

Revised vide CE(E/S) Lucknow letter No. 2059 Ni/2010(S.O.R) dated 22-06-2010

| Sl. No. | Description of | | Output of machine | | Usage Rate in Rs. | | Proposed M/c rates |
|---------|--|-----------------------------|-------------------|-------------|-------------------|----------|-----------------------|
| | Machine | Activity | Unit | Output | Unit | Output | |
| 1 | Dozer D-50-A-15 | Spreading | Cum/hour | 200 | per hour | 1423.00 | 2000.00 |
| | | Cutting | Cum/hour | 100 | | | |
| | | Clearing | Cum/hour | 150 | | | |
| 2 | Dozer D-80-A-12 | Spreading | Cum/hour | 300 | per hour | 2400.00 | 3300.00 |
| | | Cutting | Cum/hour | 150 | | | |
| | | Clearing | Cum/hour | 250 | | | |
| 3 | | Clearing GSB | Cum/hour | 200 | per hour | 1545.00 | 1950.00 |
| | | Spreading WMM | Cum/hour | 200 | | | |
| | | | Cum/hour | 50 | | | |
| | | | Cum/hour | 50 | | | |
| 4 | Hydraulic Excavator of 1 cum bucket | Soil Ordinary Soil | Cum/hour | 60 | per hour | 840.00 | 1700.00 |
| | | Marshy Soil Unsuitable | Cum/hour | 60 | | | |
| | | | Cum/hour | 60 | | | |
| 5 | Front end loader 1 cum bucket capacity | Soil loading Aggregate | Cum/hour | 60 | per hour | 520.00 | 900.00 |
| | | loading | Cum/hour | 25 | | | |
| 6 | Tipper-5 cum | Transportation of soil | Capacity in cum | 5.5 | per Km. | 15.60 | 21.80 |
| | | GSB, WMM, Hotmix etc. | | | | | |
| | | | | | | | |
| 7 | Vibratory Roller 8 tonne | Earth/Soil GSB | Cum/hour | 100 | per hour | 994.00 | 1100.00 |
| | | WMM | Cum/hour | 60 | | | |
| | | | Cum/hour | 60 | | | |
| 8 | Smooth Wheeled Roller 8 tonne | Soil Compaction | Cum/hour | 70 | per hour | 297.00 | 325.00 |
| | | BM Compaction | Cum/hour | 25 | | | |
| 9 | Water Tanker | Water Transport | Capacity in KL | 6 | per Km. | 15.60 | 21.00 |
| | | | | | | | |
| 10 | Tractor | Pulling | Capacity in HP | 50 | per hour | 234.00 | 325.00 |
| | | | | | | | |
| 11 | Rotavator | Sacrifying | Cum/hour | 25 | per hour | 11.00 | 15.00 |
| | | | Cum/hour | 60 | | | |
| 12 | Ripper | Sacrifying | Cum/hour | 60 | per hour | 18.00 | 25.00 |
| | | | Cum/hour | 60 | | | |
| 13 | Air Compressor | General Purpose | Capacity in cfm | 170/ 250 | per hour | 206.00 | 290.00 |
| | | | | | | | |
| 14 | Wet Mix Plant 60 TPH | Wet Mix | Cum/hour | 25 | per hour | 777.00 | 1087.00 |
| | | | Cum/hour | 25 | | | |
| 15 | Mechanical Broom Hydraulic | Surface Cleaning | Sqm/hour | 1250 | per hour | 230.00 | 322.00 |
| | | | Sqm/hour | 1250 | | | |
| 16 | Bitumen Pressure Distributor | Applying Bitumen tack coat | Sqm/hour | 1750 | per hour | 692.00 | 968.00 |
| | | | Sqm/hour | 1750 | | | |
| 17 | Emulsion Pressure Distributor | Applying emulsion tack coat | Sqm/hour | 1750 | per hour | 516.00 | 722.00 |
| | | | Sqm/hour | 1750 | | | |
| 18 | Hotmix Plant-120 TPH capacity | DBM/BM/SDC/Premix | Cum/hour | 40 | per hour | 15100.00 | 21140.00 |
| | | | Cum/hour | 40 | | | |
| 19 | Hotmix Plant-100 TPH capacity | DBM/BM/SDC/Premix | Cum/hour | 30 | per hour | 11167.00 | 15633.00 |
| | | | Cum/hour | 30 | | | |
| 20 | Hotmix Plant-60 to 90 TPH capacity | DBM/BM/SDC/Premix | Cum/hour | 25 | per hour | 8930.00 | 12502.00 |
| | | | Cum/hour | 25 | | | |
| 21 | Hotmix Plant-40 to 60 TPH capacity | DBM/BM/SDC/Premix | Cum/hour | 17 | per hour | 7150.00 | 10010.00 |
| | | | Cum/hour | 17 | | | |
| 22 | Paver Finisher Hydrostatic with Sensor Control 100 THP | Paving of DBM/BM/SDC/Premix | Cum/hour | 40 | per hour | 1725.00 | 2415.00 |
| | | | Cum/hour | 40 | | | |
| 23 | Paver Finisher Mechanical 100 THP | Paving of WMM | Cum/hour | 40 | per hour | 629.00 | 880.00 |
| | | Paving of DLC | Cum/hour | 30 | | | |
| 24 | Hydraulic Chip Spreader | Surface Dressing | Sqm/hour | 1500 | per hour | 1700.00 | 2380.00 |
| | | | Sqm/hour | 1500 | | | |
| 25 | Tandem Road Roller | Rolling of Asphalt Surface | Cum/hour | 30 | per hour | 738.00 | 1000.00 |
| | | | Cum/hour | 30 | | | |

| Sl. No. | Description of | | Output of machine | | Usage Rate in Rs. | | Proposod M/c rates |
|---------|---|---|-------------------|-------------|---------------------|----------|-----------------------|
| | Machine | Activity | Unit | Output | Unit | Output | |
| 26 | Penumallic Road Roller | Rolling of Asphalt Surface | Cum/hour | 25 | per hour | 802.00 | 1122.80 |
| 27 | Pot-Hole Repair Machine | Repair of Pot-holes | Cum/hour | 4 | per hour | 585.00 | 819.00 |
| 28 | Bitumen Boiler Oil Fired | Bitumen Spraying | Capacity in litre | 1500 | per hour | 128.00 | 179.20 |
| 29 | GSB Plant 50 cum | Producing GSB | Cum/hour | 40 | per hour | 670.00 | 938.00 |
| 30 | Mastic Cooker with 63 KVA Generator | Mastic Wearing Coat | Capacity in tonne | 1 | per hour | 40.00 | 1300.00 |
| 31 | Batching and Mixing Plant a) 30 cum capacity | Concrete Mixing | Cum/hour | 20 | per hour | 1440.00 | 2016.00 |
| | b) 15 - 20 cum capacity | Concrete Mixing | Cum/hour | 13 | per hour | 1200.00 | 1680.00 |
| 32 | Transit Mixer | Transportation of Concrete Mix to site | Cum/hour | 4.5 | per hour | 600.00 | 900.00 |
| 33 | Concrete Pump of 30 cum capacity | Pumping of Concrete | Cum/hour | 22 | per hour | 1100.00 | 231.00 |
| 34 | Cranes a) 80 tonnes | Lifting Purpose | | | per hour | 825.00 | 1155.00 |
| | b) 35 tonnes | Lifting Purpose | | | per hour | 550.00 | 770.00 |
| | c) 3 tonnes | Lifting Purpose | | | per hour | 230.00 | 322.00 |
| 35 | Concrete Bucket | For pouring Concrete | Capacity in cum | 1 | per hour | 10.00 | 14.00 |
| 36 | Kerb Casting Machine | Kerb Making | Rm/hour | 80 | per hour | 200.00 | 280.00 |
| 37 | Concrete Mixer a) 0.4/0.28 cum | Concrete Mixing | Cum/hour | 2.5 | per hour | 150.00 | 210.00 |
| | b) 01 cum | Concrete Mixing | Cum/hour | 7.5 | per hour | 150.00 | 210.00 |
| 38 | Piling Rig with Bantonite pump | 0.75 m dia to 1.2 m dia Boring Attachement | Rm/hour | 2 to 3 | per hour | 3225.00 | 4935.00 |
| 39 | Concrete Paver-Finisher with 40 HP Motor | Paving of Concrete surface | Cum/hour | 20 | per hour | 1850.00 | 2590.00 |
| 40 | Integrsted Stone Crusher | Crushing of Spalls | TPH | 100 | per hour | 5590.00 | 7826.00 |
| | | Crushing of Spalls | TPH | 200 | per hour | 11760.00 | 16464.00 |
| 41 | Prestressing Jack with Pump & Access | Stressing of Steel Wires/ Stands | | | per hour | 83.00 | 116.20 |
| 42 | Generator a) 125 KVA | Generation of Electric Energy | KVA | 100 | per hour | 450.00 | 1100.00 |
| | b) 33 KVA | | KVA | 50 | per hour | 240.00 | 336.00 |
| 43 | Pneumatic Sinking Plant | Pneumatic Sinking of Wells | Cum/hour | 1.5 to 2.00 | per hour | 2690.00 | 3766.00 |
| 44 | Truck 5.5 cum per 10 tonnes | Material Transport | Capacity/ cum | 4.5 | per km per tonne | 14.50 | 20.30 |
| | | | | | | 1.60 | 2.24 |
| 45 | Road Marking Machine | Road Marking | Sqm/hour | 100 | per hour | | 84.00 |
| 46 | Mobile Slurry Seal Equipment | Mixing and laying slurry seal | Sqm/hour | 2700 | per hour | 650.00 | 910.00 |

मुख्य अभियन्ता (वि०/य००)
लो०नि०वि०, लखनऊ

NORMS FOR CONSUMPTION OF MATERIALS FOR BUILDING WORKS

| Sl. No. | ITEM | Unit | Cement Bag | W.lime Cu.M | Surkhi Cu.M | Fine.San d Cu.M | C.Sand Cum. | Ist.class Brick | Grit Cu.M. | B.Ball Cu.M. |
|------------|--|------|---------------|----------------|----------------|--------------------|----------------|--------------------|---------------|-----------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 1 | M-150 B.W. in 1:3 lime and surkhi | Cum. | -- | 0.08 | 0.24 | -- | -- | 460 | -- | -- |
| 2 | Cement concrete 1:5:10 | Cum. | 2.83 | -- | -- | 0.5 | -- | -- | -- | 1.00 |
| 3 | 2 Cm. thick D.P.C. 1:2 cement/ coarse sand | Sqm. | 0.27 | -- | -- | -- | 0.02 | -- | -- | -- |
| 4 | Same as item 4 above but 2.5cm thick c.c. 1:1½ :3 cement & Coarse sand 13mm grit | Sqm. | 0.22 | -- | -- | -- | 0.27 | -- | 0.023 | -- |
| 5 | R.B. Lintel & Railing in 1:3 Cement and coarse sand | Cum. | 3.74 | -- | -- | -- | 0.33 | 424 | -- | -- |
| 6 | m-150 Brick Work in cement and sand mortar | | | | | | | | | |
| | 1:3 Cum. | | 2.48 | -- | -- | 0.27 | -- | 460 | -- | -- |
| | 1:4 Cum. | | 1.86 | -- | -- | 0.27 | -- | 460 | -- | -- |
| | 1:5 Cum. | | 1.57 | -- | -- | 0.27 | -- | 460 | -- | -- |
| | 1:6 Cum. | | 1.26 | -- | -- | 0.27 | -- | 460 | -- | -- |
| 7 | 12mm thick cement Plastering | | | | | | | | | |
| | 1:2 Sqm. | | 0.228 | -- | -- | 0.015 | -- | -- | -- | -- |
| | 1:3 Sqm. | | 0.152 | -- | -- | 0.015 | -- | -- | -- | -- |
| | 1:4 Sqm. | | 0.114 | -- | -- | 0.015 | -- | -- | -- | -- |
| | 1:5 Sqm. | | 0.091 | -- | -- | 0.015 | -- | -- | -- | -- |
| | 1:6 Sqm. | | 0.076 | -- | -- | 0.015 | -- | -- | -- | -- |
| 8 | 20mm. thick plaster in polished dado or skirting 1:2 | Sqm. | 0.242 | -- | -- | -- | 0.018 | -- | -- | -- |
| 9 | C.C. Floor 1:2:4 plain 4cm. thick without base concrete. | Sqm. | 0.296 | -- | -- | -- | 0.02 | -- | 0.04 | -- |
| 10 | C.C. Floor 1:2:4 plain 2.5 cm. thick without base concrete. | Sqm. | 0.219 | -- | -- | -- | 0.011 | -- | 0.023 | -- |
| 11 | Lime concrete 2.5 cm. gauge 100:18:36 in roof terracing | Cum. | -- | 0.18 | 0.36 | -- | -- | -- | -- | 1.00 |

| Sl. No. | ITEM | Unit | Cement Bag | W.lime Cu.M | Surkhi Cu.M | Fine.San d Cu.M | C.Sand Cum. | Ist.class Brick | Grit Cu.M. | B.Ball Cu.M. |
|------------|--|------|---------------|----------------|----------------|--------------------|----------------|--------------------|---------------|-----------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | White washing per coats | Sqm. | -- | 0.11 | -- | -- | -- | -- | -- | -- |
| 13 | Lime concrete in foundation in 100:16:32 | Cum. | -- | 0.15 | 0.30 | -- | -- | -- | -- | 1.00 |
| 14 | Struck pointing with 1:2 cement and fine sand | Sqm. | 0.045 | -- | -- | 0.003 | -- | -- | -- | -- |
| 15 | Cement Wash | Sqm. | 0.013 | -- | -- | -- | -- | -- | -- | -- |
| 16 | Plaster 1:6 cement & fine sand :- a. 10mm. thick | Sqm. | 0.063 | -- | -- | 0.013 | -- | -- | -- | -- |
| | b. 15 mm. thick | Sqm. | 0.095 | -- | -- | 0.019 | -- | -- | -- | -- |
| 17 | C.C. 1:3:6 | Cum. | 4.49 | -- | -- | -- | 0.465 | -- | 0.92 | -- |
| 18 | C.C. 1:6:12 | Cum | 2.26 | -- | -- | 0.48 | -- | -- | 1.00 | -- |
| 19 | C.C. 1:4:8 | Cum | 3.44 | -- | -- | 0.48 | -- | -- | 0.94 | -- |
| 20 | R.C.C. 1:2:4 | Cum | 6.66 | -- | -- | -- | 0.45 | -- | 0.90 | -- |
| 21 | R.C.C. 1:1½:3 | Cum | 8.68 | -- | -- | -- | 0.425 | -- | 0.85 | -- |
| 22 | B.W. in 1:3 Cement & C.sand | Cum. | 2.48 | -- | -- | -- | 0.27 | 460 | -- | -- |

- 23 Bitumen Consumption for Patch Repair by Premixing 90kg per Cum in hot and 100kg per cum for cold weather.
- 24 Fuel wood consumption for Patch Repair by Premixing 90kg per cum in hot and 100kg per cum for cold weather.
- 25 Emulsion for Patch Repair @100kg.per cum.

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